

WEST Search History

DATE: Saturday, September 14, 2002

Part of Paper No.

U.S. Patent and Trademark Office

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set

DB=USPT; PLUR=YES; OP=ADJ

L6	L4 and DNA methyltransferase	12	L6
L5	L4 and DNA methylase	1	L5
L4	L3 and transgenic	114	L4
L3	L2 and (gene or cdna or coding sequence)	193	L3
L2	methyltransferase and (corn or maize or zea mays)	234	L2
L1	zmet2a	0	L1

END OF SEARCH HISTORY

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FILE 'BIOSIS' ENTERED AT 13:18:06 ON 05 JUN 2003
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=> s zmet2a
L1 2 ZMET2A

```
=> dup rem l1  
PROCESSING COMPLETED FOR L1  
L2          2 DUP REM L1. (0 DUPLICATES REMOVED)
```

=> d 1-3 ti

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Analysis of *zmet2a*: A maize methyltransferase essential for
C₆H₅ methylation.

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Class II DNA methyltransferases of maize

=> s ((papa, c?) or (papa c?))/au
L3 163 ((PAPA C3) OR (PAPA C3))/AU

=> s 13 and methyltransferase
L4 5 L3 AND METHYLTRANSFERASE

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 3 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1-3 ti

L5 ANSWER 1 OF 3 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2003) DUPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG methylation.

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Analysis of zmet2a: A maize **methyltransferase** essential for CpNpG methylation

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Class II DNA methyltransferases of maize

=> s ((kaeppler s? or (kaeppler, s?))/au
UNMATCHED LEFT PARENTHESIS '(KAEPPLER'
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s ((kaeppler s?) or (kaeppler, s?))/au
L6 95 ((KAEPPLER S?) OR (KAEPPLER, S?))/AU

=> s l6 and methyltransferase
L7 0 L6 AND METHYLTRANSFERASE

=> s l6 and methyltransferase
L8 8 L6 AND METHYLTRANSFERASE

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 4 DUP REM L8 (4 DUPLICATES REMOVED)

=> d 1-4 ti

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Nucleic acid and amino acid sequences encoding a de novo DNA methyltransferase from corn and the use of the methyltransferase for altering a target gene methylation in a plant

L9 ANSWER 2 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2003) DUPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG methylation.

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Class II DNA methyltransferases of maize

L9 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2003) DUPLICATE 2

TI Conserved plant genes with similarity to mammalian de novo DNA methyltransferases.

=> s zmet2?
L10 5 ZMET2?

```
=> dup rem 110
PROCESSING COMPLETED FOR L10
L11      3 DUP REM L10 (2 DUPLICATES REMOVED)

=> d 1-3 ti

L11 ANSWER 1 OF 3 AGRICOLA Compiled and distributed by the National
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of America. It contains copyrighted materials. All rights reserved.
(2003)                               DUPLICATE 1
TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG
methylation.

L11 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Analysis of zmet2a: A maize methyltransferase essential for
CpNpG methylation

L11 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Class II DNA methyltransferases of maize

=> s methyltransferase and (corn or maize or zea)
L12      215 METHYLTRANSFERASE AND (CORN OR MAIZE OR ZEA)

=> s l12 and (gene or cdna or coding region)
L13      141 L12 AND (GENE OR CDNA OR CODING REGION)

=> s l13 and dna methyltransferase
L14      20 L13 AND DNA METHYLTRANSFERASE

=> dup rem 114
PROCESSING COMPLETED FOR L14
L15      15 DUP REM L14 (5 DUPLICATES REMOVED)

=> d 1-5 ti

L15 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Chimeric histone acetyltransferase polypeptides, and uses for determining
gene expression profiles and modulating gene expression
in plant cells

L15 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Rules for design of sequence-specific zinc finger peptides and the design
of novel DNA binding proteins for regulation of genetic processes

L15 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Usage of zinc finger proteins and their fusions with effector domains to
regulate gene expression and metabolic pathways in plants

L15 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Zinc finger domain recognition code for use in designing DNA binding
proteins

L15 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Reverse genetic strategy for identifying functional mutations, TILLING
(targeting induced local lesions in genomics) that combines chemical
mutagenesis with a sensitive mutation detection

=> d 1-3 ab

L15 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2003 ACS
AB The present invention discloses chimeric polypeptides that comprise a
first polypeptide segment having histone acetyltransferase enzymic
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activity and a second polypeptide segment that is similar to a subunit of a chromatin-assoccd. histone deacetyltransferase protein complex, and uses for detg. gene expression profiles and modulating gene expression in plant cells. Also disclosed are nucleic acids encoding such chimeric polypeptides and eukaryotic organisms expressing such chimeric polypeptides. The invention also features methods for detecting the expression of one or more genes in the eukaryotes, and methods for modulating gene expression in the eukaryotes.

L15 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2003 ACS

AB The present invention relates to DNA binding proteins comprising zinc finger domains in which two histidine and two cysteine residues coordinate a central zinc ion. More particularly, the invention relates to the identification of a context-independent recognition code to design zinc finger domains. This code permits identification of an amino acid for positions -1, 2, 3 and 6 of the .alpha.-helical region of the zinc finger domain from four-base pair nucleotide target sequences. The invention includes zinc finger proteins (ZFPs) designed using this recognition code, nucleic acids encoding these ZFPs and methods of using such ZFPs to modulate gene expression, alter genome structure, inhibit viral replication and detect alterations (e.g., nucleotide substitutions, deletions or insertions) in the binding sites for such proteins. In addn., the invention provides a rapid method of assembling a ZFP with three or more zinc finger domains using three sets of 256 oligonucleotides, where each set is designed to target the 256 different 4-base pair targets and allow prodn. of all possible 3-finger ZFPs (i.e., >>106) from a total of 768 oligonucleotides. The invention also is directed to a method of prepgr. artificial transcription factors.

L15 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2003 ACS

AB The invention relates to the field of plant and agricultural technol. More specifically, the invention relates to the construction of zinc finger proteins and fusions of said proteins and their use to regulate gene expression and metabolic pathways in plants. Plant genes AP3 and MIPs were exampd. for suitable zinc finger binding sites. The novel engineered zinc finger proteins used in the present methods are ZFPm1, ZFPm2, ZFPm3, ZFPm4 and ZFPAp3. These proteins can be used alone or fused to an effector domain. The present methods can be used to modulate gene expression in monocot or dicot plant cells.

=> d 6-10 ti

L15 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Nucleic acid and amino acid sequences encoding a de novo DNA methyltransferase from corn and the use of the methyltransferase for altering a target gene methylation in a plant

L15 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Usage of zinc finger protein to regulate gene expression and metabolic pathways in plants and creation of five zinc finger proteins

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DUPPLICATE 1

TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG methylation.

L15 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2003 ACS

TI Selection and orientation of adjacent genes influences DAM-mediated male sterility in transformed maize

L15 ANSWER 10 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Hypomethylation of the c-Myc gene by the peroxisome
proliferator, Wy-14,643.

=> d 11-15 ti

L15 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Class II DNA methyltransferases of maize

L15 ANSWER 12 OF 15 AGRICOLA Compiled and distributed by the National
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(2003) DUPLICATE 2
TI Conserved plant genes with similarity to mammalian de novo DNA
methyltransferases.

L15 ANSWER 13 OF 15 AGRICOLA Compiled and distributed by the National
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(2003) DUPLICATE 3
TI Expression of ZmMMT1, a gene encoding a DNA
methyltransferase from maize, is associated not only
with DNA replication in actively proliferating cells, but also with
altered DNA methylation status in cold-stressed quiescent cells.

L15 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2003 ACS
TI Cloning and characterization of the 5-methylcytosine
methyltransferase gene in maize (zea
mays) plants and tissue cultures

L15 ANSWER 15 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI CHANGES IN DNA METHYLTRANSFERASE INDUCED BY TREATMENT
WITH N-2 ACETYLAMINOFLUORENE.

=> s cmt1
L16 183 CMT1

=> s l16 and methyltransferase
L17 7 L16 AND METHYLTRANSFERASE

=> dup rem l17
PROCESSING COMPLETED FOR L17
L18 3 DUP REM L17 (4 DUPLICATES REMOVED)

=> d 1-3 ti

L18 ANSWER 1 OF 3 AGRICOLA Compiled and distributed by the National
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(2003) DUPLICATE 1
TI Maize chromomethylase Zea methyltransferase2 is required for CpNpG
methylation.

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 2
TI The Candida albicans gene for mRNA 5'-cap methyltransferase:
identification of additional residues essential for catalysis

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 3
TI A DNA methyltransferase homolog with a chromodomain exists in
multiple polymorphic forms in Arabidopsis

